



KStyp(NCN)-3/21

Lublin, 15/07/2021

INSTITUTE OF AGROPHYSICS,
POLISH ACADEMY OF SCIENCES IN LUBLIN
IS SEARCHING FOR HIGHLY MOTIVATED CANDIDATES INTERESTED IN SCIENTIFIC WORK
FOR:

PhD FELLOWSHIP (f/m) in the Project:

„Studies on arabinogalactan proteins (AGPs) as significant components of cell wall during the ripening process in fruit” no. 2020/39/D/NZ9/00232, financed by National Science Centre within the funding scheme Sonata 16

1. Requirements:

- a) master's degree in biology, biotechnology or related
- b) good knowledge on molecular biology, biochemistry or plant physiology.
- c) good command of English for professional purposes
- d) experience in independent organization of one's own research work
- e) experience in teamwork

2. Job description:

The Institute of Agrophysics, Polish Academy of Sciences, Department of Microstructure and Mechanics of Biomaterials is looking for **PhD student** in the Doctoral School of Quantitative and Natural Sciences.

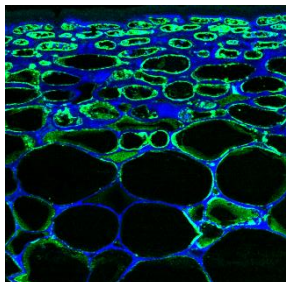
PhD thesis proposal:

Arabinogalactan proteins (AGPs) as significant components of cell wall during the ripening process:

- The PhD studies will take place for 48 months (from 01.10.2020) at the Department of Microstructure and Mechanics of Biomaterials, Institute of Agrophysics, Polish Academy of Sciences, Lublin, Poland under supervision of Agata Leszczuk, PhD (a.leszczuk@ipan.lublin.pl, www).
- The doctoral scholarship is co-financed by the NCN Sonata 16 project and a subsidy from the Minister of Science and Higher Education. The scholarship is guaranteed for a period of 48 months.
- Language of PhD course and thesis: English or Polish.
- **The condition for the candidate's involvement and payment of the scholarship in the Sonata 16 project under the conditions set out in the Act on Higher Education and Science of 20 July 2018 (Journal of Laws 2021 item 478 as amended) is his admission to the doctoral school. Details (documents, procedures, deadlines) are available on the doctoral school website of [the Doctoral School](http://www).**

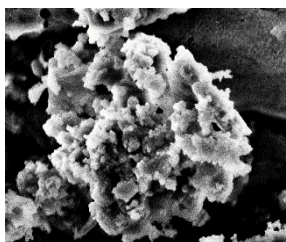


Keywords: arabinogalactan proteins, cell wall, immunochemistry, microscopy, molecular biology



Project aims: The project focuses on the arabinogalactan proteins (AGPs), which are regarded to be one of the less known proteoglycans of plant cell wall. In turn, tomato is a preeminent model system for molecular and genetic studies in plants, and thus general goal of the PhD project is characterization of AGPs in the tomato fruit during ripening process.

Research topics cover the wide area of structural biology, molecular and cell biology. PhD project includes analysis of the distribution and structure of AGPs in fruit (1), and then elucidation of the AGPs effect on the whole cell wall structure, mainly on spatial-temporal localization of the other cell wall constituents during fruit ripening process (2).



PhD project will give opportunity to carry out the comprehensive microscopic studies using CLSM, SEM, and TEM as well as to use modern approaches such as immunolabelling, and molecular biology methods. Additionally, international cooperation is planned in the project, giving the possibility of short-term scholarships for training in molecular biology and genetics in laboratories in Greece.

References:

- Leszczuk A., Kalaitzis P., Blazakis K., Zdunek A. 2020. The role of arabinogalactan proteins (AGPs) in fruit ripening - a review. Horticulture Research, 7: 176.
- Leszczuk A., Zajac A., Kurzyna-Szklarek M., Cybulska J., Zdunek A. 2020. Investigations of changes in the arabinogalactan proteins (AGPs) structure, size and composition during the fruit ripening process. Scientific Reports, 10: 20621.

Do not hesitate to contact Agata Leszczuk, PhD (a.leszczuk@ipan.lublin.pl) with any question related to the PhD project.

3. **Funding scheme:** Sonata 16
4. **NSC panel name (Research field):** NZ9
5. **Deadline for submitting applications:** 31th August 2021.
6. **How to apply:** in electronic form via our Recruitment System:
<https://career.ipan.lublin.pl/en/announcements/>
7. **Interview:** 13th-21st September 2021 with the stipulation the deadline can be changed.
8. **Results will be announced by:** 22nd September 2021, with the stipulation the deadline can be changed.
9. **Terms of employment:**

The successful candidate will receive scholarship for 48 months, under the rules of Act on Higher Education and Science of 20 July 2018 (Journal of Laws of 2021 item 478 as amended) in the amount of PLN 5,000.00 per month, reduced by ZUS due contributions reduced by ZUS due contributions on the side of the scholarship holder and the Institute up to the month mid-term evaluation and in the amount of PLN 5,000.00 monthly, reduced by ZUS due contributions reduced by ZUS due contributions on the side of the scholarship holder and the Institute after a positive mid-term evaluation result. Please be informed the amount stated above also include contributions and benefits payable by the Institute (total scholarship cost), therefore the gross amount of scholarship will be calculated as the above values being reduced accordingly.



10. Additional information:

- a) The recruitment process is organized as an open competition pursuant to the terms and conditions stated in the document called: „**Regulations for awarding NCN scholarships for NCN-funded research projects**” (Annex to Resolution No 25/2019 of the NCN Council - https://www.ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2019/uchwala25_2019-zal1_ang.pdf)“.
- b) After the deadline for submitting applications will expire, the Committee may conduct interviews with candidates. In this case, each candidate will be informed individually about the first stage results, as well as the date of the interview.
- c) The Institute reserves right to award the fellowship to the candidate ranked 2nd, only if the chosen candidate resigns before signing the fellowship agreement.

11. Required documents:

- 1) letter of application addressed to the Chairperson of the Committee – Agata Leszczuk, PhD
- 2) Curriculum Vitae with an information about possessed competences, a summary of scientific accomplishments and awards (including in particular: published scientific papers, conference speeches, participation in research projects, internships, training courses as well as other research achievements and scientific distinctions)
- 3) copy of MSc diploma
- 4) recommendation letter issued by the research supervisor
- 5) declaration of availability to work in the Project with the indication of the starting date 1st October 2021
- 6) declaration of consent to the processing of personal data contained in the fellowship offer for the needs of the recruitment process in accordance with the example below:

„I allow my personal data stated in the abovementioned applications to be processed for the purpose of the recruitment by the Institute of Agrophysics of the Polish Academy of Sciences

*(20-290 Lublin, ul. Doświadczalna 4), in accordance with the General Data Protection Regulation (EU) 2016/679.”**

*) Information clause on personal data is available on the following website:

<http://www.ipan.lublin.pl/wp-content/uploads/2019/02/information-clause-IA-PAS.pdf>

If you are interested in this position please send your application via our Recruitment System by 31.08.2021: <https://career.ipan.lublin.pl/en/announcements/>

We kindly inform that we contact only chosen candidates and also applications that are incomplete, submitted after the deadline or in the different form than required will not be processed.